

Photometric test report

Family
DL® 20 LED

Order number: 5XA512832S008
EAN: 4058352546406

LP number
59489_16



Version post-top mounting
Optic symmetric, wide distribution (PL1.2s)
Cover toughened safety glass
Lamps LED 2200 K | CRI ≥ 70
Controlgear ECG Plus
Rated values Net luminous flux = 3050 lm
Power consumption = 30.4 W
Luminous efficacy = 100.3 lm/W

serial
documentation
07.12.2023

siteco

Luminous intensity in cd/klm

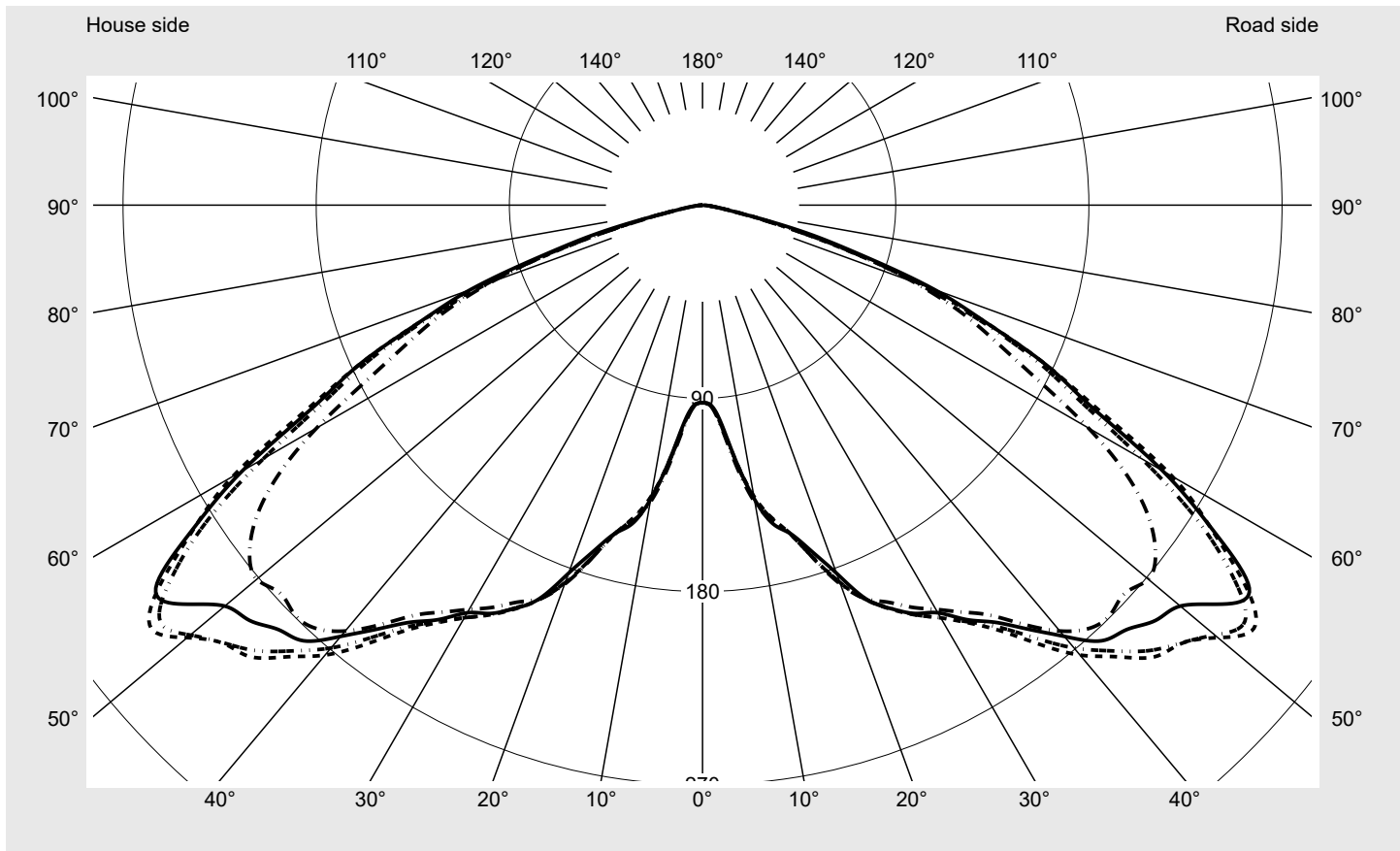
C180-0

C230-50

C235-55

C270-90

Imax: 324 cd/klm



Luminaire output ratios

Eta	100.0%
Eta 0° - 90°	100.0%
Eta 90° - 180°	0.0%

Luminous intensity class acc. to EN13201-2

Class:	G6
Imax 70°	119.6
Imax 80°	10.2
Imax 90°	0.0
Imax >90°	0.0
Imax >95°	0.0

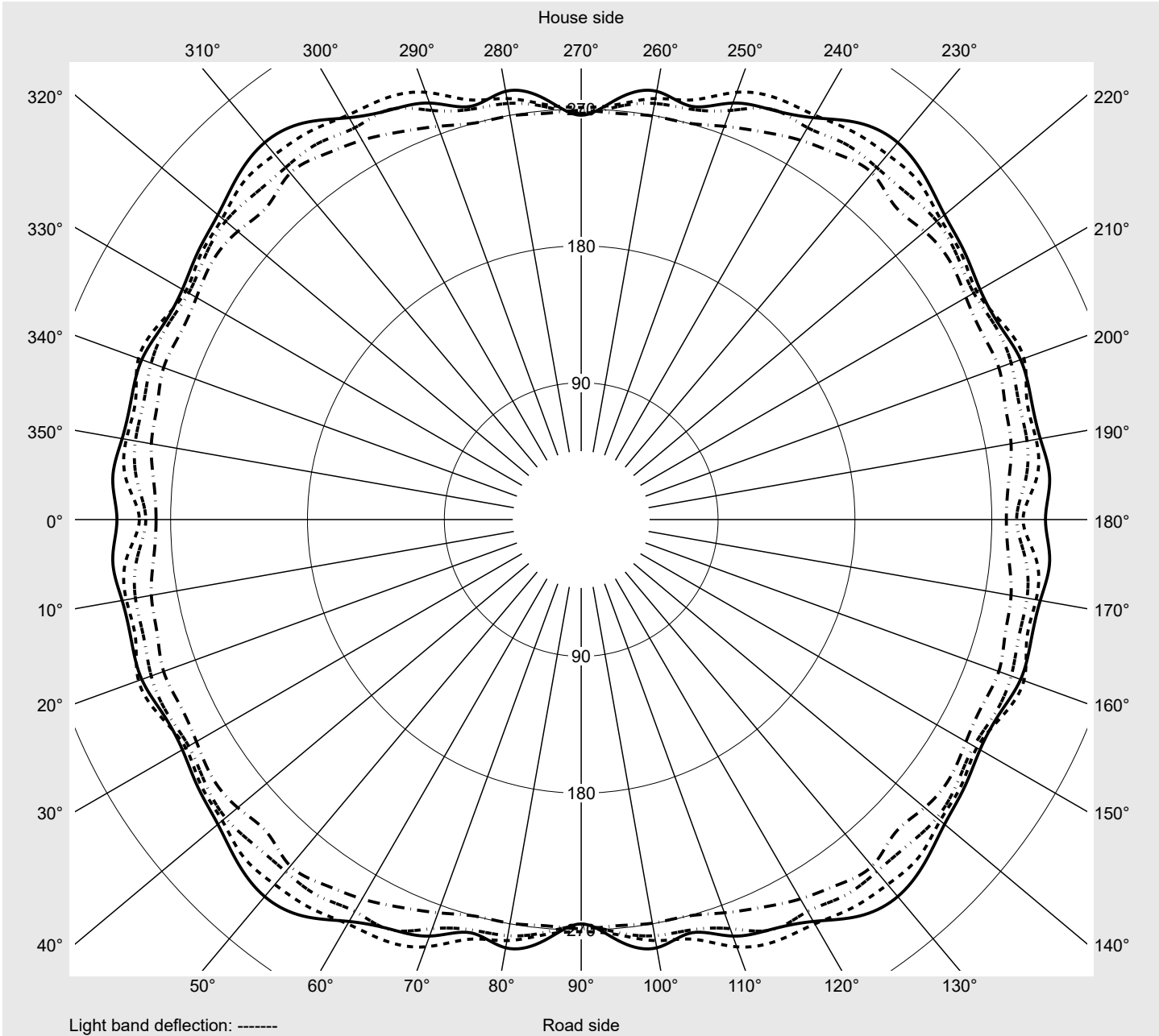
Measurement conditions

DIN EN 13032 and DIN 5032

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Envelope curve in cd/klm **KMK 52.5°** **KMK 50°** **KMK 47.5°** **KMK 45°** **siteco**



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Table of values for luminous intensities	Maximum luminous intensity
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C-planes	0° 180°	5°	10°	15°	20°	25°	30°	35°	40°	45°
		175° 185° 355°	170° 190° 350°	165° 195° 345°	160° 200° 340°	155° 205° 335°	150° 210° 330°	145° 215° 325°	140° 220° 320°	135° 225° 315°
γ Luminous intensity in cd/klm										
0,0°	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
2,5°	93.4	93.2	93.1	93.3	93.3	93.3	93.3	93.3	93.4	93.5
5,0°	102.6	102.9	102.9	103.0	102.9	102.9	103.0	103.0	103.1	103.3
7,5°	120.6	120.2	120.1	120.1	119.8	119.6	119.7	119.6	119.8	120.3
10,0°	139.0	139.1	138.5	138.4	137.3	136.8	136.8	136.3	136.6	137.5
12,5°	152.1	151.2	150.5	150.5	149.0	148.4	148.7	147.7	147.9	149.4
15,0°	158.5	157.9	157.9	158.4	157.4	157.4	158.2	157.5	157.6	159.0
17,5°	169.1	168.6	169.4	170.4	170.6	171.4	172.2	172.4	172.1	172.5
20,0°	182.5	183.9	185.1	185.3	186.6	187.2	186.8	186.8	186.6	186.5
22,5°	198.4	198.7	199.5	198.7	200.2	200.0	198.4	199.1	198.5	197.4
25,0°	207.3	209.4	209.1	207.0	208.7	208.9	206.7	207.5	207.4	205.9
27,5°	214.5	216.3	216.8	214.4	215.4	215.5	214.3	214.7	214.1	213.5
30,0°	219.3	221.6	223.0	220.8	221.0	222.5	222.0	220.9	220.0	219.9
32,5°	228.9	230.3	232.4	230.1	228.5	229.7	230.3	229.4	230.0	229.4
35,0°	237.2	241.2	242.0	238.8	237.4	239.3	241.5	239.9	239.5	240.8
37,5°	248.9	251.0	250.2	248.6	251.3	252.2	253.8	251.9	252.2	254.2
40,0°	262.2	264.6	262.5	260.0	264.5	267.0	266.1	268.6	268.1	269.8
42,5°	275.2	277.3	275.3	277.1	278.3	279.3	279.4	282.4	282.6	279.4
45,0°	279.6	282.1	287.0	288.7	292.2	290.7	292.2	296.1	294.8	291.7
47,5°	286.3	293.2	297.7	297.9	300.9	300.6	298.1	302.0	305.3	303.3
50,0°	290.6	300.3	303.8	303.4	309.8	305.6	300.3	305.1	308.1	314.0
52,5°	305.3	309.2	306.5	306.3	307.5	303.2	302.8	307.5	311.9	319.4
55,0°	311.0	305.4	298.9	300.0	292.0	289.0	292.6	299.2	298.2	304.3
57,5°	282.2	276.7	270.3	271.8	266.1	264.4	268.1	272.4	272.2	276.3
60,0°	247.6	245.5	244.2	239.0	236.3	232.0	232.9	238.4	241.6	244.4
62,5°	205.4	209.1	210.1	207.7	204.4	198.0	200.9	206.1	205.1	205.5
65,0°	177.5	177.6	176.7	178.2	173.4	171.3	172.2	176.4	174.3	174.3
67,5°	143.2	143.6	143.1	145.0	143.3	140.0	143.1	149.0	147.3	144.4
70,0°	114.9	113.5	112.8	112.7	112.4	110.9	112.3	119.6	115.8	111.4
72,5°	78.2	80.5	81.1	78.8	75.5	76.3	77.9	81.3	79.6	74.4
75,0°	50.1	48.6	45.8	43.9	43.4	42.5	42.2	43.8	44.5	42.1
77,5°	21.0	22.0	20.5	20.2	21.3	21.4	20.6	22.0	22.3	21.2
80,0°	9.7	9.8	9.3	9.1	9.7	10.1	9.8	10.2	9.9	9.2
82,5°	4.6	4.9	4.8	4.7	4.8	4.9	4.7	4.9	4.9	4.8
85,0°	2.3	2.4	2.4	2.3	2.3	2.3	2.3	2.4	2.4	2.3
87,5°	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.2	1.1	1.1
90,0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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Table of values for luminous intensities		Maximum luminous intensity
		siteco

C-planes γ	50° 130° 230° 310°	55° 125° 235° 305°	60° 120° 240° 300°	65° 115° 245° 295°	70° 110° 250° 290°	75° 105° 255° 285°	80° 100° 260° 280°	85° 95° 265° 275°	90° 270°	Phi-zone	Total Phi-zone
	Luminous intensity in cd/klm									Luminous flux in lm/klm	
0,0°	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	0.1	0.1
2,5°	93.6	93.6	93.8	93.7	93.8	93.9	94.0	94.0	94.0	1.1	1.3
5,0°	103.5	103.8	104.1	104.3	104.4	104.7	104.7	104.8	104.8	2.5	3.7
7,5°	120.8	121.4	122.0	122.4	122.6	123.0	123.1	123.2	123.3	4.3	8.1
10,0°	137.7	138.2	139.0	139.1	139.5	140.3	140.0	140.2	140.7	6.6	14.7
12,5°	149.2	149.7	150.7	150.0	150.0	150.8	150.0	149.8	150.7	8.9	23.5
15,0°	158.8	159.0	159.7	158.5	158.3	159.1	158.1	157.8	158.5	11.2	34.8
17,5°	172.6	172.6	172.5	172.3	172.4	172.6	172.5	172.7	172.9	14.2	48.9
20,0°	187.2	186.9	186.0	186.5	187.0	186.8	187.9	188.4	188.0	17.5	66.4
22,5°	198.9	198.8	197.2	198.1	198.3	197.6	199.7	199.8	198.5	20.8	87.3
25,0°	207.7	207.1	204.7	205.8	206.0	204.4	206.4	206.2	204.0	24.0	111.2
27,5°	215.2	215.1	211.4	213.0	213.8	212.2	213.4	213.2	211.2	27.1	138.3
30,0°	222.0	221.9	217.5	218.7	221.0	221.0	221.2	219.6	217.4	30.3	168.6
32,5°	230.7	230.2	225.0	226.1	228.5	226.7	226.4	226.4	224.8	33.7	202.3
35,0°	242.1	239.9	236.9	238.1	238.4	235.2	234.4	234.3	233.1	37.5	239.8
37,5°	257.9	254.0	251.8	253.1	250.1	245.3	243.6	245.6	246.2	41.9	281.6
40,0°	273.6	269.3	265.8	265.6	261.7	256.1	255.0	256.8	259.0	46.6	328.2
42,5°	285.3	281.6	279.0	274.3	269.2	263.3	265.7	264.5	267.2	51.1	379.3
45,0°	297.6	293.5	288.2	281.5	275.3	270.1	269.7	268.3	269.2	55.3	434.6
47,5°	302.4	302.0	297.7	297.7	286.4	279.5	278.0	272.6	267.2	59.4	494.0
50,0°	313.4	311.6	307.2	305.6	299.1	285.9	281.3	274.1	271.1	63.1	557.1
52,5°	323.8	318.5	305.3	297.3	291.6	281.4	286.1	278.0	266.0	65.8	622.9
55,0°	308.6	301.6	284.6	267.9	262.8	266.7	273.7	261.2	253.9	64.7	687.6
57,5°	281.4	273.7	260.4	243.6	239.6	241.8	248.4	242.0	234.7	60.7	748.3
60,0°	252.7	236.3	225.6	218.2	209.4	207.3	215.1	212.9	207.5	54.9	803.2
62,5°	210.3	199.3	188.5	191.6	187.9	180.1	183.3	184.8	175.8	48.1	851.3
65,0°	177.5	172.0	164.5	167.2	167.2	158.3	157.6	157.0	151.2	42.2	893.6
67,5°	143.0	139.2	137.6	142.5	139.9	135.1	129.6	129.7	130.3	35.6	929.2
70,0°	108.8	106.6	108.9	113.6	113.6	108.1	104.3	105.9	104.6	28.6	957.8
72,5°	72.6	73.7	76.1	79.3	78.8	76.0	73.7	73.5	74.9	20.1	977.9
75,0°	42.7	43.0	42.7	43.6	43.1	44.3	40.7	40.8	41.6	11.5	989.5
77,5°	21.9	21.5	21.5	22.1	20.4	19.9	19.5	19.9	19.4	5.6	995.1
80,0°	9.5	9.8	9.7	10.1	9.8	9.4	9.7	9.9	9.3	2.6	997.7
82,5°	4.9	5.0	4.9	5.3	5.0	4.8	5.1	5.2	4.9	1.3	999.0
85,0°	2.4	2.4	2.4	2.4	2.4	2.3	2.5	2.4	2.3	0.6	999.7
87,5°	1.2	1.1	1.2	1.2	1.2	1.2	1.2	1.1	1.2	0.3	1000.0
90,0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0

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Dimming levels table	environmental temperature: 25°C	sITeco
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Luminous flux %	Dimming level linear	Luminous flux [lm]	Power consumption [W] start of lifetime	Power consumption [W] end of lifetime	Power consumption [W] average
100	254	3050	30.4	31.3	30.8
95	241	2903	29.0	29.7	29.4
90	227	2742	27.3	28.0	27.6
85	214	2592	25.8	26.5	26.2
80	201	2441	24.3	24.9	24.6
75	188	2289	22.8	23.4	23.1
70	175	2137	21.3	21.8	21.6
65	162	1983	19.8	20.3	20.0
60	149	1829	18.4	18.8	18.6
55	136	1673	16.9	17.3	17.1
50	124	1528	15.5	15.9	15.7
45	111	1371	14.2	14.5	14.4
40	99	1225	12.9	13.1	13.0
35	86	1066	11.5	11.7	11.6
30	74	918	10.2	10.5	10.4
25	61	757	8.9	9.0	9.0
20	49	608	7.6	7.7	7.6
15	38	470	6.4	6.5	6.4